

0300

07/05/00 10:20 #4



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/046,935

DATE: 02/05/2002  
TIME: 16:17:47

Input Set : D:\527c1.app  
Output Set: N:\CRF3\02052002\J046935.raw

PS

4 <110> APPLICANT: Jiang, Yuqiu  
 5 Harlocker, Susan L.  
 6 Secrist, Heather  
 7 Wang, Aijun  
 8 Stolk, John A.  
 10 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
     AND DIAGNOSIS OF COLON CANCER  
 14 <130> FILE REFERENCE: 210121.527C1  
 16 <140> CURRENT APPLICATION NUMBER: US/10/046,935  
 17 <141> CURRENT FILING DATE: 2002-01-15  
 19 <160> NUMBER OF SEQ ID NOS: 2239  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 579  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: misc\_feature  
 30 <222> LOCATION: 454, 469, 558  
 31 <223> OTHER INFORMATION: n = A,T,C or G  
 33 <400> SEQUENCE: 1  
 34 acttcagttg gtgcacaaaa tactgtcatt tgctcaaagc tggctgccaa atgtttgg 60  
 35 atgaaggcag aaatgaatgg ctcaaaaactt gggagaagag caaaacctga agggggccctc 120  
 36 cagaacaatg atgggcctta tgatcctgac tgcatgaga gcgggctt taaggccaag 180  
 37 cagtcaacg gcacccat gtctgggtgt gtgaacactg ctggggtcag aagaacagac 240  
 38 aaggacactg aaataaacctg ctctgagcga gtgagaacct actggatcat cattgaacta 300  
 39 aaacacaaaag caagagaaaa accttatgtat agtaaaagg tgcggactgc acttcagaag 360  
 40 gagatcacaa cgccgttatca actggatcca aaatttatca cgagtatttt gtatgagaat 420  
 41 aatgttatca ctattgatct ggttcaaaat tctnctaaa aaaactcanat atgatgttgg 480  
 42 acatagctga tggcgctta ttattttga aaaagatgtt aaaggtaat ccttgttca 540  
 43 ttctagaaaa tggacctnac agtaaaatggg gaacaactg 579  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 520  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Homo sapiens  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: misc\_feature  
 52 <222> LOCATION: 380, 487  
 53 <223> OTHER INFORMATION: n = A,T,C or G  
 55 <400> SEQUENCE: 2  
 56 acaaaccaag agcttttaca gatccagaat ttatttagttt aaaatgcagg tgaacttttt 60  
 57 tttgcgtttg gtttacttgtt ctgtcaaatg tttccttaaa catgaaactg aataaggaga 120  
 58 agagtatttt taacacttaa atttcttggc aaattttaaa acatttttaa gtctgtaata 180

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Input Set: D:\527c1.app

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59 cactccactt gaagcactta agtcttcctt aaatgacttt tcttaagtaa tgatactgtg 240  
 60 tggggccca aagcacttt aaaaaattt ttataaatta ctatctgtg aaaaggtgc 300  
 61 ctttccctt cttctagttt tttttctta ccaaattca ctaatcttg atgttgtga 360  
 Wx-> 62 tattaaatttc caaaatgcan gaatacttga ctcatttaaa gctaaaattt tgtaactga 420  
 63 tttcaattat aattgtaatg gatTTTTTG actttgtaat ggattcttt tcataaaaaa 480  
 Wx-> 64 agccttnatt tttttatct atgtggaaaaa cacaataaaa 520  
 66 <210> SEQ ID NO: 3  
 67 <211> LENGTH: 177  
 68 <212> TYPE: DNA  
 69 <213> ORGANISM: Homo sapiens  
 71 <220> FEATURE:  
 72 <221> NAME/KEY: misc\_feature  
 73 <222> LOCATION: 9, 60, 61  
 74 <223> OTHER INFORMATION: n = A,T,C or G  
 76 <400> SEQUENCE: 3  
 Wx-> 77 gtactttcnG aagatgaaat atttataatg agttatggaa acaatgtttt agaaatgttn 60  
 Wx-> 78 ntcttgggtgt aatttaatgc agatTTTAC ctcaattttg ttaaaaaact tgataatttg 120  
 79 atccctccat ctatttaata ttaatattt tcagattcta gagtatttaa aatttaa 177  
 81 <210> SEQ ID NO: 4  
 82 <211> LENGTH: 223  
 83 <212> TYPE: DNA  
 84 <213> ORGANISM: Homo sapiens  
 86 <220> FEATURE:  
 87 <221> NAME/KEY: misc\_feature  
 88 <222> LOCATION: 18, 19, 64, 158, 167, 172, 173  
 89 <223> OTHER INFORMATION: n = A,T,C or G  
 91 <400> SEQUENCE: 4  
 Wx-> 92 acaggacacc accccgannt gaagggcatt gcggggca ttggacccc ccacccacta 60  
 Wx-> 93 cagntaactc aagacaacat accatgctac aaagtccaccc cattaacaca tccttccaa 120  
 Wx-> 94 gtcagacac tgccttacaa atgaactcca agactatnGA aatgatnAAA annaatcttg 180  
 95 ttcaaatata cagtatctgc tattatagga aacatcaggc cgt 223  
 97 <210> SEQ ID NO: 5  
 98 <211> LENGTH: 414  
 99 <212> TYPE: DNA  
 100 <213> ORGANISM: Homo sapiens  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: misc\_feature  
 104 <222> LOCATION: 387  
 105 <223> OTHER INFORMATION: n = A,T,C or G  
 107 <400> SEQUENCE: 5  
 108 actttcgaa gatgaaatat ttataatgag ttatggaaac aatgttttag aaatgtttt 60  
 109 cttgggttaa tttaatgcag attttacct cgatTTGTT aaaaaacttg ataatttgat 120  
 110 ccctccatct atttaatatt taatatttc agattctaga gtatttaaaa tttaaacaca 180  
 111 attataaaaat taattataat tcctacttat gttagctatg atttaggGCC aaaactacCC 240  
 112 tggTTTTGTC ttgcaacttg aaacatttg tatttaaac tatataattt gggAACATTa 300  
 113 ttttataagac tgtgataac caaatataag atttgtgatt tttaatgctt catttgtgtA 360  
 114 aaatcatttg tatattctat ttatagnatg caatTTTCT agctcatTA aagt 414  
 116 <210> SEQ ID NO: 6  
 117 <211> LENGTH: 408

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118 <212> TYPE: DNA  
119 <213> ORGANISM: Homo sapiens  
121 <220> FEATURE:  
122 <221> NAME/KEY: misc\_feature  
123 <222> LOCATION: 367  
124 <223> OTHER INFORMATION: n = A,T,C or G  
126 <400> SEQUENCE: 6  
127 acctgtccca gccacaggct tcttgcac ctcttcacca ctgcccacca gctgctcagc 60  
128 gcataagacc ttccccacag gctctgcgtg tgcagcttc tgcgtccctc ctggccctc 120  
129 cagcgtcaga cactaatggg agttcccgag atgctcgggt ttgagcaggg agcaggcaga 180  
130 gctgcagtca gagacattag aaaaccagtc tgaattgggt ctgtctttga gatgcccagg 240  
131 ccagcagaaa gcagctcaga agtattgtt ctcatgggt gcacatggac tgaactgtaa 300  
132 tgaaaatgtt atttaatctt tgtctctgtt tttgataact tgaatgactt tccctttgt 360  
133 **tttactncat ataaaattgt taatctgtot gatttgtct gaattata** 408  
135 <210> SEQ ID NO: 7  
136 <211> LENGTH: 489  
137 <212> TYPE: DNA  
138 <213> ORGANISM: Homo sapiens  
140 <220> FEATURE:  
141 <221> NAME/KEY: misc\_feature  
142 <222> LOCATION: 364/  
143 <223> OTHER INFORMATION: n = A,T,C or G  
145 <400> SEQUENCE: 7  
146 aaaaaaataa acagacattt atttccagac ttatcttta cataagttaa atacacattt 60  
147 gtctgaggca ctgaaacatt cgcatcacaca acccaaattt ccaggttttgc tcagcagatc 120  
148 aatgttaata acaaatcaag tttttttttt aaaaaaaaaa gtgaacagtg ttttatacaa 180  
149 gcatattgac tatttcttc ttaaccttaa acattctaaa cgtaaaaattt taaaagaagat 240  
150 tctcctgagt tatcttaat gatattttt tcattttctc cctctccca aaagaaaattt 300  
151 ttttcaatt atttatataa atactattat ctgtaatcag cgtttgattt aaaaatatta 360  
152 **aaancccaaca gtgcttgaca cagaatattt tctcaataaa ttgtggctga acaaattaac** 420  
153 gaagcatcca cagatccctc aaaacatttt aaaaggtcag tcttätggca cattcaggct 480  
154 aatgagaca 489  
156 <210> SEQ ID NO: 8  
157 <211> LENGTH: 195  
158 <212> TYPE: DNA  
159 <213> ORGANISM: Homo sapiens  
161 <400> SEQUENCE: 8  
162 accattgggt gccaattgtt ttgatggtaa gggagggatc gttgacctcg tctgttatgt 60  
163 aaaggatgcg tagggatggg agggcgatga ggactaggat gatggcgggc aggatagttc 120  
164 agacggtttc tatttctgtt gctgtctgaga tgtagttt agtttagttt ttgttgatgt 180  
165 ttagaaaaag ggcgt 195  
167 <210> SEQ ID NO: 9  
168 <211> LENGTH: 499  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Homo sapiens  
172 <400> SEQUENCE: 9  
173 acaatttctt tatattcttc cttgggtata tctttatgtt ggtaaaaatgg cttgtatggcc 60  
174 aattttacct cttgtgtgc tttttctgtt atttgcaatt tctgtatgaga agaaaatgtt 120  
175 taatttattt tttgccaqtc atactqctct cacaaaatcc caaacaagaa attgaaaata 180

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176 cttcatattt acaataagag actctccaac tattaacgtg acaaataataa aacagtttat 240  
 177 ttactaaaac atatcaaaca tttctaaaaa caattataaa atattaccag taatttactg 300  
 178 gacatcaaca catctagaga gaatccttc aataataatg gcatttagac agccaataag 360  
 179 aaattccctt caccactcat acaataaaaaa gctgatattt tttctcctt atcatataca 420  
 180 gaattatgaa ggttgtctc aaccttgaac ttgccttgc tgcttcgag ctatctgcgc 480  
 181 tggcttccac tgcaacact 499  
 183 <210> SEQ ID NO: 10  
 184 <211> LENGTH: 539  
 185 <212> TYPE: DNA  
 186 <213> ORGANISM: Homo sapiens  
 188 <400> SEQUENCE: 10  
 189 acttacaaca gttttaaagc aattgatact ttcaagaacaa tctcaagctt aattggttac 60  
 190 cattataaga tgcagaactt ttaatgttt tctgtccct gaaaattcaa tagggccaaa 120  
 191 tgcattaact ggaaatagca tttttttaa gtctaatca aagatgataa tggataaaac 180  
 192 aactatatacg gctctcatac acaatcttc ttaatttca ccttgaaga aatgattaca 240  
 193 atgtccttcg ggcttggat acaccccccac agaatcaaga agaaaggccaa caaagaattg 300  
 194 aacatttcaa caagcttaga aatatttact gtaagcatat tgtaaaattc tggaagacat 360  
 195 actatcaata ctttggaaa acactattaa catgtgtga agaaggcagt ttataatga 420  
 196 aacattacaa atcttatgtt tatgcataca acttataaaa tagaaaaaaag ctgttattt 480  
 197 tccaaatgta tagcatcaca ctaacactat atagttaaaa ttgaaaactt ctgtacctc 539  
 199 <210> SEQ ID NO: 11  
 200 <211> LENGTH: 318  
 201 <212> TYPE: DNA  
 202 <213> ORGANISM: Homo sapiens  
 204 <400> SEQUENCE: 11  
 205 gcagaaaatga atggctcaaa acttgggaga agagcaaaac ctgaaggggc cctccagaac 60  
 206 aatgatgggc ttatgtatcc tgactgcgt gagagcgggc tcttttaaggc caagcagtgc 120  
 207 aacggcacct ccatgtgttg gtgtgtgaac actgtgggg tcagaagaac agacaaggac 180  
 208 actgaaataa cctgtctga gcgagtggaa acctactggta tcatcatgtg actaaaacac 240  
 209 aaagcaagag aaaaaccta tggatgtaaa agtttgcgga ctgcacttca gaaggagatc 300  
 210 acaacgcgtt atcaactg 318  
 212 <210> SEQ ID NO: 12  
 213 <211> LENGTH: 168  
 214 <212> TYPE: DNA  
 215 <213> ORGANISM: Homo sapiens  
 217 <400> SEQUENCE: 12  
 218 acctgtgggt ttattaccta tgggttata tcctcaaata cgacattcta gtcaaagtct 60  
 219 tggtaatata accaatgttt tcaaattgtat tctgtcatac aaagagcaga tttttattga 120  
 220 acttgtgcaa taactatatt accatacaat ataaatattc atgaatag 168  
 222 <210> SEQ ID NO: 13  
 223 <211> LENGTH: 410  
 224 <212> TYPE: DNA  
 225 <213> ORGANISM: Homo sapiens  
 227 <400> SEQUENCE: 13  
 228 acattaaatg ataatgttg aagatcacac aaagattca caaaactata actaatacag 60  
 229 aaagatgtgt gaaaacatta ggggcttca aaattttagg tatggatatt tgcaaagatt 120  
 230 attttggctt ataagtgtta ggcaatcaat aacctgaaat aagtgacaaa aacatgcaga 180  
 231 tgattaccat ttcaacaaat gaaaagctat aaatgtctag ctaaaagcta aaataattgtg 240  
 232 tagctgaaat actaccat aacaatggga atttataaaa caggaaaaaa ggttattctt 300

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233 taaaagtctt ccatgagtaa tagactttca gtaatttct ataaaaacat tcagaaatta 360  
 234 agtttctcaa attatgtta tcaccaaaat tatgtttca gtatgtactg 410  
 236 <210> SEQ ID NO: 14  
 237 <211> LENGTH: 374  
 238 <212> TYPE: DNA  
 239 <213> ORGANISM: Homo sapiens  
 241 <400> SEQUENCE: 14  
 242 acacaatggt ttattaaagg aatgtatggc ccacatcaac ctagcaagga ttctactgg 60  
 243 aaacccctcct atggccaaag gaaaaacaag caggagtga gtggctggg tggggtcag 120  
 244 gcaatggaga gagggcagaa gggtgtagaa gctgaagggg tctagaagct tactcctgag 180  
 245 tttcttcctt ctgtcttcaa atctttactt cttatggcca aagaccgcg tgtttcatag 240  
 246 gctggagatg cactcttcta gactgctcg aacagccaga gacaggggag gagggaaagaa 300  
 247 ggatactgtg gaaaggatg gcggggcaaa catttagagc tagaagccac tactggcca 360  
 248 atgctaaagt ttct 374  
 250 <210> SEQ ID NO: 15  
 251 <211> LENGTH: 403  
 252 <212> TYPE: DNA  
 253 <213> ORGANISM: Homo sapiens  
 255 <400> SEQUENCE: 15  
 256 accttcacca gaaattgtcc cacattaaag gtctcatcct ggagtttag gaaaaagaaca 60  
 257 ggggcagctg aagttatcaa gggatTTT gggcctctgc ttatgtaaac acaaaggaac 120  
 258 aaagcagcta taaactaaat agaatgcaac tatctgctt tcttatgtcg accactggag 180  
 259 tccatggtg caagtagaga gctgctcg gttcttgagg tttggTTTC attattaatt 240  
 260 tttagggtat gggcactgtg caaagactcc atagctgtgc cttaggatct aggaaaagtg 300  
 261 acagaggctt ggctttta cctttagtgc agccaaatca tttcaagtc ctgagaaatg 360  
 262 acatcatctt caggataaaa taatgaggac attagacaaa cca 403  
 264 <210> SEQ ID NO: 16  
 265 <211> LENGTH: 494  
 266 <212> TYPE: DNA  
 267 <213> ORGANISM: Homo sapiens  
 269 <400> SEQUENCE: 16  
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 271 ggggtgaaca ttccggagatt gctcaacggt agcatcggt tcaagaacga tgcacatcctg 120  
 272 gaggcagact acactttaga gtatgaggaa ctgtttgaaa acctggcaga gattgtaaag 180  
 273 gccaagattt tgaatgaaac tagacaact cttttgtatc ctgattcctg cagaaaggcc 240  
 274 atactgtgt atagtgaa gacacttgc gtggattcat cggtgactcc gggctttgac 300  
 275 ttccaggagc aatgcaccca gaaggctgcc gaaggatata cccagttctt ctagtgtggat 360  
 276 gtcttggatg ggaagctggc ctgtgtgaac aagtgcacca aaggaacgaa gtgcacaaatg 420  
 277 aactgttaacc tggcacctg tcagctgcaa cgcagtgccccc cgtgccttgcgttgc 480  
 278 acgaaacacac actg 494  
 280 <210> SEQ ID NO: 17  
 281 <211> LENGTH: 478  
 282 <212> TYPE: DNA  
 283 <213> ORGANISM: Homo sapiens  
 285 <220> FEATURE:  
 286 <221> NAME/KEY: misc\_feature  
 287 <222> LOCATION: 15, 293, 348, 354, 361, 372, 388, 437, 438, 440, 465  
 288 <223> OTHER INFORMATION: n = A,T,C or G  
 290 <400> SEQUENCE: 17

→ The code for Xaa has been detected in the Sequence Listing.  
 → In the Sequence Listing no feature corresponding  
 → explanation is presented in the <220> to <223> fields of  
 → each sequence using n or Xaa.

## VERIFICATION SUMMARY

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Input Set : D:\527c1.app

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L:16 M:270 C: Current Application Number differs, Wrong Format  
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

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L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51

L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51